

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/555,735
Source: TF00
Date Processed by STIC: 12/04/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

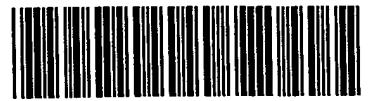
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	<u>SERIAL NUMBER:</u> <u>10/555,735</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters , instead.	
4 <input type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) <input type="checkbox"/> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <input type="checkbox"/> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) <input type="checkbox"/> missing. If intentional , please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa , and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
<input checked="" type="checkbox"/> 11 Use of <220>	Sequence(s) <input type="checkbox"/> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single <u>nucleotide</u> ; "Xaa" can only represent a single <u>amino acid</u>	



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/555,735

DATE: 12/04/2006
TIME: 12:59:05

Input Set : N:\efs\12_04_06\10555735_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

4 <110> APPLICANT: Blatt, Lawrence M.
 6 <120> TITLE OF INVENTION: SYNTHETIC CHEMOKINE RECEPTOR LIGANDS AND
 7 METHODS OF USE THEREOF
 9 <130> FILE REFERENCE: INTM-033WO
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/555,735
 C--> 12 <141> CURRENT FILING DATE: 2005-11-07
 14 <150> PRIOR APPLICATION NUMBER: 60/471,404
 15 <151> PRIOR FILING DATE: 2003-05-16
 17 <160> NUMBER OF SEQ ID NOS: 20
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 77
 23 <212> TYPE: PRT
 24 <213> ORGANISM: Artificial Sequence
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: consensus IP-10 sequence
 29 <400> SEQUENCE: 1
 30 Val Pro Leu Ser Arg Thr Gly Arg Cys Thr Cys Ile Ser Ile Ser Asn
 1 5 10 15
 31 1 5 10 15
 32 Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu Glu Ile Ile Pro Pro
 20 25 30
 33 20 25 30
 34 Ser Gln Phe Cys Pro Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
 35 40 45
 35 35 40 45
 36 Gly Glu Gln Arg Cys Leu Asn Pro Glu Ser Lys Ala Ile Lys Asn Leu
 37 50 55 60
 37 37 50 55 60
 38 Ile Lys Lys Val Ser Arg Glu Met Ser Lys Lys Ser Pro
 39 65 70 75
 39 39 65 70 75
 42 <210> SEQ ID NO: 2
 43 <211> LENGTH: 74
 44 <212> TYPE: PRT
 45 <213> ORGANISM: Artificial Sequence
 47 <220> FEATURE:
 48 <223> OTHER INFORMATION: consensus I-TAC sequence
 50 <400> SEQUENCE: 2
 51 Phe Pro Met Phe Arg Arg Gly Arg Cys Leu Cys Ile Ser Pro Gly Val
 51 5 10 15
 52 1 5 10 15
 53 Lys Ala Val Lys Val Ala Ser Leu Glu Lys Leu Ser Ile Met Tyr Pro
 53 20 25 30
 54 20 25 30
 55 Ser Asn Asn Cys Asp Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
 56 35 40 45
 56 35 40 45
 57 Gly Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys Gln Ala Lys Leu Leu
 58 50 55 60
 58 58 50 55 60
 59 Ile Lys Lys Val Glu Arg Lys Lys Asn Phe

Does Not Comply
Corrected Diskette Needed
(pg. 3)

RAW SEQUENCE LISTING DATE: 12/04/2006
PATENT APPLICATION: US/10/555,735 TIME: 12:59:05

Input Set : N:\efs\12_04_06\10555735_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

60 65 70
63 <210> SEQ ID NO: 3
64 <211> LENGTH: 104
65 <212> TYPE: PRT
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: consensus Mig sequence
71 <400> SEQUENCE: 3
72 Thr Pro Val Val Arg Lys Gly Arg Cys Ser Cys Ile Ser Thr Asn Gln
73 1 5 10 15
74 Gly Thr Val His Leu Gln Ser Leu Glu Lys Leu Lys Ile Phe Ala Pro
75 20 25 30
76 Ser Pro Ser Cys Glu Lys Ile Glu Ile Ala Thr Leu Lys Lys Asn
77 35 40 45
78 Gly Val Gln Arg Cys Leu Asn Pro Asp Ser Lys Asp Val Lys Glu Leu
79 50 55 60
80 Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys Lys Gln Lys Asn
81 65 70 75 80
82 Gly Lys Lys His Gln Lys Lys Val Leu Lys Val Arg Lys Val Gln
83 85 90 95
84 Arg Ser Arg Gln Lys Lys Thr Thr
85 100
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 10
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: epitope tag
96 <400> SEQUENCE: 4
97 Cys Tyr Pro Tyr Asp Val Pro Asp Tyr Ala
98 1 5 10
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 8
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: epitope tag
109 <400> SEQUENCE: 5
110 Asp Tyr Lys Asp Asp Asp Asp Lys
111 1 5
114 <210> SEQ ID NO: 6
115 <211> LENGTH: 11
116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: epitope tag
122 <400> SEQUENCE: 6
123 Cys Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu
124 1 5 10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/555,735

DATE: 12/04/2006
TIME: 12:59:05

Input Set : N:\efs\12_04_06\10555735_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

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127 <210> SEQ ID NO: 7
128 <211> LENGTH: 5
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: protease cleavage site
135 <400> SEQUENCE: 7
136 Asp Asp Asp Asp Lys
137 1 5
140 <210> SEQ ID NO: 8
141 <211> LENGTH: 4
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: protease cleavage site
148 <400> SEQUENCE: 8
149 Ile Glu Gly Arg
150 1
153 <210> SEQ ID NO: 9
154 <211> LENGTH: 6
155 <212> TYPE: PRT
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: protease cleavage site
161 <400> SEQUENCE: 9
162 Leu Val Pro Arg Gly Ser
163 1 5
166 <210> SEQ ID NO: 10
167 <211> LENGTH: 8
168 <212> TYPE: PRT
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: protease cleavage site
174 <400> SEQUENCE: 10
175 His Pro Phe His Leu Val Ile His
176 1 5
179 <210> SEQ ID NO: 11
180 <211> LENGTH: 104
181 <212> TYPE: PRT
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Majority Sequence
W--> 187 <221> NAME/KEY: VARIANT
188 <222> LOCATION: 1, 3, 4, 6, 10, 14, 15, 16, 17, 18, 20, 21, 22, 28, 30, 31, Summary
189 34, 35, 37, 50, 57, 60, 61, 63, 68, 69, 70, 71, 72, 73,
190 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87,
191 88, 89, 90, 91, 92, 93, 94, 96, 98, 99, 100, 103, 104
192 <223> OTHER INFORMATION: Xaa = Any Amino Acid
W--> 194 <400> 11

```

Invalid Response.
 What is the source of
 genetic material?
 See Glen II
 on Error

RAW SEQUENCE LISTING

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Input Set : N:\efs\12_04_06\10555735_efs\INTM01901USseqlist.txt
 Output Set: N:\CRF4\12042006\J555735.raw

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W--> 195 Xaa Pro Xaa Xaa Arg Xaa Gly Arg Cys Xaa Cys Ile Ser Xaa Xaa Xaa
196   1           5           10          15
197 Xaa Xaa Val Xaa Xaa Xaa Ser Leu Glu Lys Leu Xaa Ile Xaa Xaa Pro
198   20          25          30
199 Ser Xaa Xaa Cys Xaa Lys Ile Glu Ile Ile Ala Thr Leu Lys Lys Asn
200   35          40          45
201 Gly Xaa Gln Arg Cys Leu Asn Pro Xaa Ser Lys Xaa Xaa Lys Xaa Leu
202   50          55          60
203 Ile Lys Lys Xaa Xaa
204   65          70          75          80
205 Xaa Val Xaa
206   85          90          95
207 Arg Xaa Xaa Xaa Lys Lys Xaa Xaa
208   100
211 <210> SEQ ID NO: 12
212 <211> LENGTH: 98
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapien
216 <400> SEQUENCE: 12
217 Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu
218   1           5           10          15
219 Ser Gly Ile Gln Gly Val Pro Leu Ser Arg Thr Val Arg Cys Thr Cys
220   20          25          30
221 Ile Ser Ile Ser Asn Gln Pro Val Asn Pro Arg Ser Leu Glu Lys Leu
222   35          40          45
223 Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Val Glu Ile Ile Ala
224   50          55          60
225 Thr Met Lys Lys Lys Gly Glu Lys Arg Cys Leu Asn Pro Glu Ser Lys
226   65          70          75          80
227 Ala Ile Lys Asn Leu Leu Lys Ala Val Ser Lys Glu Met Ser Lys Arg
228   85          90          95
229 Ser Pro
233 <210> SEQ ID NO: 13
234 <211> LENGTH: 94
235 <212> TYPE: PRT
236 <213> ORGANISM: Homo sapien
238 <400> SEQUENCE: 13
239 Met Ser Val Lys Gly Met Ala Ile Ala Leu Ala Val Ile Leu Cys Ala
240   1           5           10          15
241 Thr Val Val Gln Gly Phe Pro Met Phe Lys Arg Gly Arg Cys Leu Cys
242   20          25          30
243 Ile Gly Pro Gly Val Lys Ala Val Lys Val Ala Asp Ile Glu Lys Ala
244   35          40          45
245 Ser Ile Met Tyr Pro Ser Asn Asn Cys Asp Lys Ile Glu Val Ile Ile
246   50          55          60
247 Thr Leu Lys Glu Asn Lys Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys
248   65          70          75          80
249 Gln Ala Arg Leu Ile Ile Lys Lys Val Glu Arg Lys Asn Phe.
250   85          90

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Input Set : N:\efs\12_04_06\10555735_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

253 <210> SEQ ID NO: 14
 254 <211> LENGTH: 125
 255 <212> TYPE: PRT
 256 <213> ORGANISM: homo sapien
 258 <400> SEQUENCE: 14
 259 Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val
 1 5 10 15
 260 Leu Ile Gly Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser
 20 25 30
 261 Cys Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp
 35 40 45
 262 Leu Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile
 50 55 60
 263 Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala
 65 70 75 80
 264 Asp Val Lys Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys
 85 90 95
 265 Lys Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Val Leu Lys
 100 105 110
 266 Val Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr
 115 120 125
 267 <210> SEQ ID NO: 15
 268 <211> LENGTH: 98
 269 <212> TYPE: PRT
 270 <213> ORGANISM: Artificial Sequence
 271 <220> FEATURE:
 272 <223> OTHER INFORMATION: hybrid CXCR3 ligand
 273 <400> SEQUENCE: 15
 274 Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val
 1 5 10 15
 275 Leu Ile Gly Val Gln Gly Phe Pro Met Phe Lys Arg Gly Arg Cys Leu
 20 25 30
 276 Cys Ile Gly Pro Gly Val Lys Pro Val Asn Pro Arg Ser Leu Glu Lys
 35 40 45
 277 Leu Glu Ile Ile Pro Ala Ser Gln Phe Cys Pro Arg Ile Glu Ile Ile
 50 55 60
 278 Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Lys
 65 70 75 80
 279 Gln Ala Arg Leu Ile Ile Lys Lys Val Ser Lys Glu Met Ser Lys Arg
 85 90 95
 280 Ser Pro
 281 <210> SEQ ID NO: 16
 282 <211> LENGTH: 124
 283 <212> TYPE: PRT
 284 <213> ORGANISM: Artificial Sequence
 285 <220> FEATURE:
 286 <223> OTHER INFORMATION: hybrid CXCR3 ligand
 287 <400> SEQUENCE: 16
 288 Met Asn Gln Thr Ala Ile Leu Ile Cys Cys Leu Ile Phe Leu Thr Leu

RAW SEQUENCE LISTING ERROR SUMMARY
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TIME: 12:59:06

Input Set : N:\efs\12_04_06\10555735_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:11; Xaa Pos. 1, 3, 4, 6, 10, 14, 15, 16, 17, 18, 20, 21, 22, 28, 30, 31, 34, 35, 37, 50
Seq#:11; Xaa Pos. 57, 60, 61, 63, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82
Seq#:11; Xaa Pos. 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 96, 98, 99, 100, 103, 104

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/555,735

DATE: 12/04/2006

TIME: 12:59:06

Input Set : N:\efs\12_04_06\10555735_efs\INTM01901USseqlist.txt
Output Set: N:\CRF4\12042006\J555735.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:187 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:194 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:195 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
M:341 Repeated in SeqNo=11